Asst. Prof. ERHAN KARAKAYA

Personal Information

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International Researcher IDs
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Education Information

Doctorate, Auburn University, Industrial and Systems Engineering, United States Of America 2013 - 2020
Postgraduate, Auburn University, Industrial and Systems Engineering, United States Of America 2011 - 2013
Undergraduate, Erciyes University, Mühendislik Fakültesi, Endüstri Mühendisliği, Turkey 2005 - 2009

Foreign Languages

Spanish, A1 Beginner
English, C1 Advanced

Research Areas

Stochastic Modeling, Optimization Theory and Methods, Simulation, Production Planning and Control, Network Design

Academic Titles / Tasks

Assistant Professor, Yozgat Bozok University, Mühendislik-Mimarlık Fakültesi, Bilgisayar Mühendisliği, 2023 - Continues
Assistant Professor, Purdue University, School of Industrial Engineering, Industrial Engineering, 2020 - 2023

Academic and Administrative Experience

Bölüm Kalite Komisyonu Başkanı, Yozgat Bozok University, Mühendislik-Mimarlık Fakültesi, Bilgisayar Mühendisliği, 2023 - Continues

Courses

Sayısal Analiz, Undergraduate, 2023 - 2024
Introduction to System Simulation, Undergraduate, 2022 - 2023, 2021 - 2022
Engineering Economics, Undergraduate, 2022 - 2023, 2021 - 2022
Lineer Cebir, Undergraduate, 2023 - 2024
Optimizasyon Teknikleri, Undergraduate, 2023 - 2024
Operations Research - Optimization, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Quality Control, Postgraduate, 2022 - 2023
Production Management Control, Postgraduate, 2020 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Design of empty container depot layouts using data and analytics**
Karakaya E., Smith A. E., Ramírez R. G. G., Pascual J.
Flexible Services and Manufacturing Journal, vol.35, no.1, pp.196-240, 2023 (SCI-Expanded)

II. **Relocations in container depots for different handling equipment types: Markov models**
Karakaya E., Vinel A., Smith A. E.
Computers and Industrial Engineering, vol.157, 2021 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. **Empty container stacking operations: Case study of an empty container depot in valparaiso Chile**
Pascual J., Aranda D., Hidalgo F., Smith A. E., Karakaya E., González-Ramírez R. G.
2016 Winter Simulation Conference, WSC 2016, Virginia, United States Of America, 11 - 14 December 2016, vol.0, pp.3724-3725

Supported Projects

Karakaya E., Project Supported by Other Official Institutions, Developing an AI-powered “TA” Tool for Engineering Economics, 2022 - 2022